

Transactions of the Kansas State Board of Agriculture, 1909-1910

Section 15, Pages 421 - 450

This biennial report from the Kansas State Board of Agriculture includes information on farm animals, market classes and grades of meat, general agriculture, common forest trees, and poultry. County statistics include population, acreages, productions, live stock, and assessed valuation of property. State statistics and crop and livestock statistics are also included.

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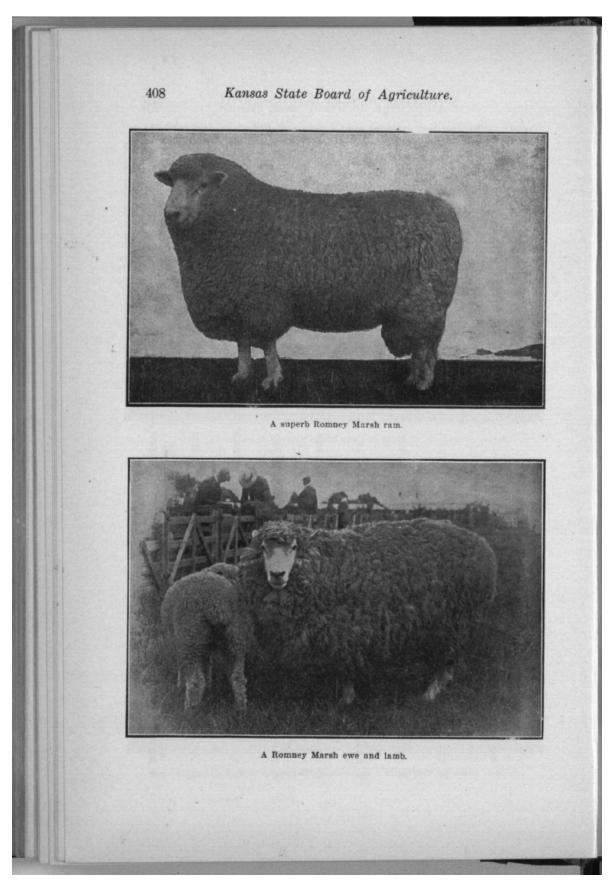
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Clean. The first test extended over a period of forty-four days, and the second test covered a period of thirty-one days. On account of the dry weather and early killing frosts in 1909, which stopped the growth of rape, it was impossible to cover the same number of days as in 1908. For this reason the results of our second year's work are not so good as they are for the first year. Table of Weights and Gains.	### COUNTY OF THE PROPERTY OF
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Lot II, consisting of twenty-three lambs, and receiving what corn they would eat both morning and evening while on rape pasture, did not gain as many pounds as the twenty-three head receiving rape pasture without grain.

The individual gains for lot II either year are not so uniform as for lot I, showing that while the lambs consumed the corn, it interfered with the fattening process. The average gain of the twenty-three head of lambs on rape pasture without grain for the two years was 13.65 pounds, while the average gain for lots receiving rape and corn for two years was 12.91 pounds per head.*

The twenty-four lambs receiving what oats they would eat morning and evening made the largest gain of the four lots, being 15.41 pounds each, as compared to 15.37 pounds for lot IV, receiving barley. The lambs in both lots III and IV for both years made larger and more uniform gains than did the lambs in lots I or II, showing that oats and barley are better suited for rapid gains for lambs than corn or no grain when on rape pasture. The difference in gain in favor of the oat lot is so small that the value of these two grains may be considered about equal pound for pound for fattening lambs on rape. The average gain for the twenty-four lambs fed rape and oats both years was 15.41 pounds, while the average gain for twenty-four lambs fed rape and barley was 15.37 pounds per head.†

Table No. II.

KINDS OF FEED.	1908 Experiment.					1909 EXPERIMENT.				
	Lambs	Days fed	Grain consumed	Gain	Av. gain per head daily	Lambs	Days fed	Grain consumed	Gain	Av. gain per head daily
Lot I, rapeLot II, rape pasture and	12	44	lbs.	lbs. 197	lbs. 0.37	11	31	lbs.	lbs. 117	lbs. 0.34
shelled corn	11	44	210	178	0.34	12	31	275	119	0.82
Lot III, rape pasture and oats	12	44	303	227	0.43	12	31	282	143	0.38
Lot IV, rape pasture and barley	12	44	313	229	0.43	12	31	282	140	0.37

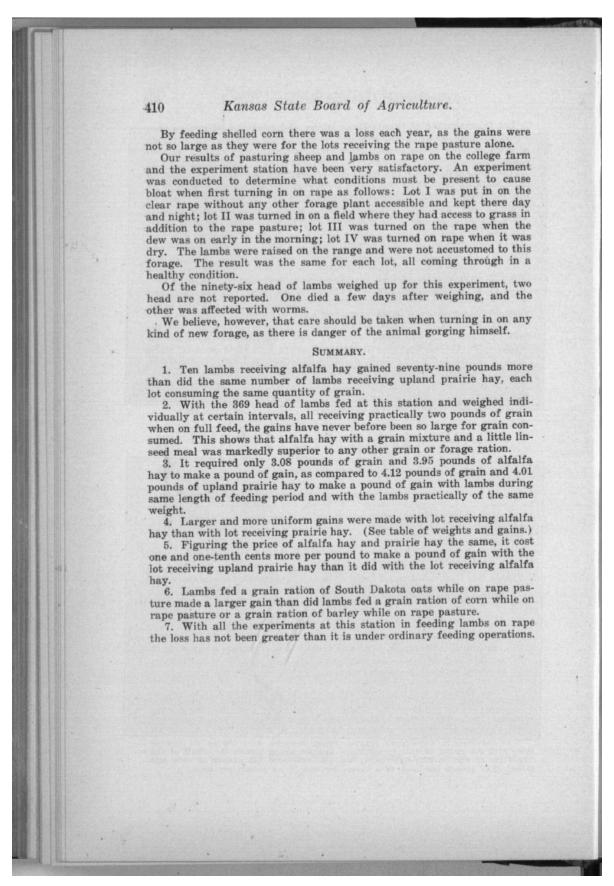
Table No. II shows kind of feed, number of lambs, number of days fed, quantity of grain consumed, total gain and average gain per head daily for each lot and for both years.

The grain ration was the same for both years. For the quantity of grain consumed, the lots receiving oats made the best gains each year, although the two lots receiving barley made practically the same gain for grain consumed. Barley as a rule is much higher in price than oats at this time of the year, hence for economical and quick gains with lambs on rape pasture, oats are to be preferred.

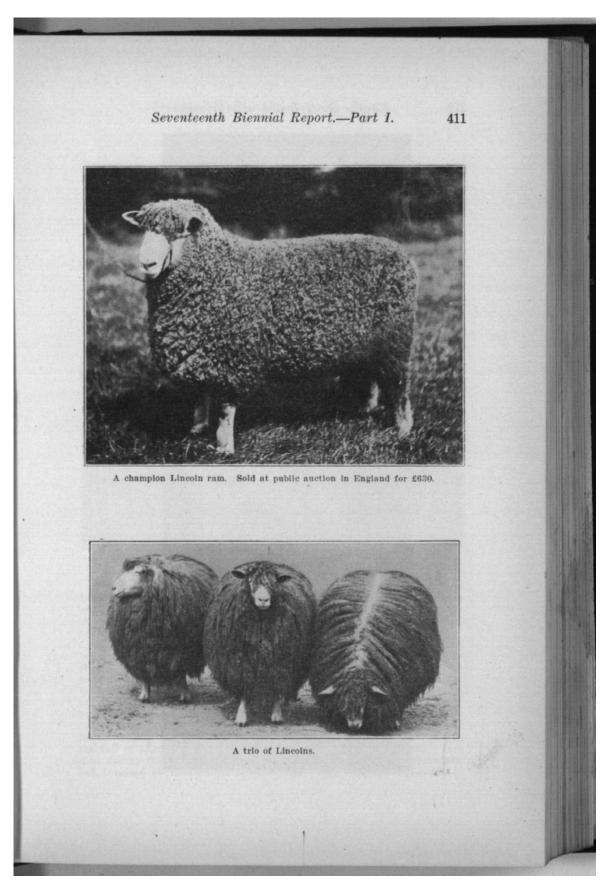
^{*} At the Wisconsin station sixteen wethers were fed on 0.7 of an acre of rape for twenty-five days, and also ate 153.5 pounds of oats and 97.5 pounds of whole corn. They gained a total of 149 pounds, or a weekly average of 2.6 pounds. Valuing the foods and the wethers at cost, and the seelling price of the latter at 4 cents per pound, the rape would be worth \$14.48 per acre.

[†] At the Ontario Experiment Station, fifteen wethers were fed on an acre of rape, with 0.5 pound of oats in addition. Besides eating almost the whole of the crop from an acre in fifty-eight days, they also consumed 345 pounds of oats, and gained 23.67 pounds per head, or a weekly increase of 2.8 pounds per head.

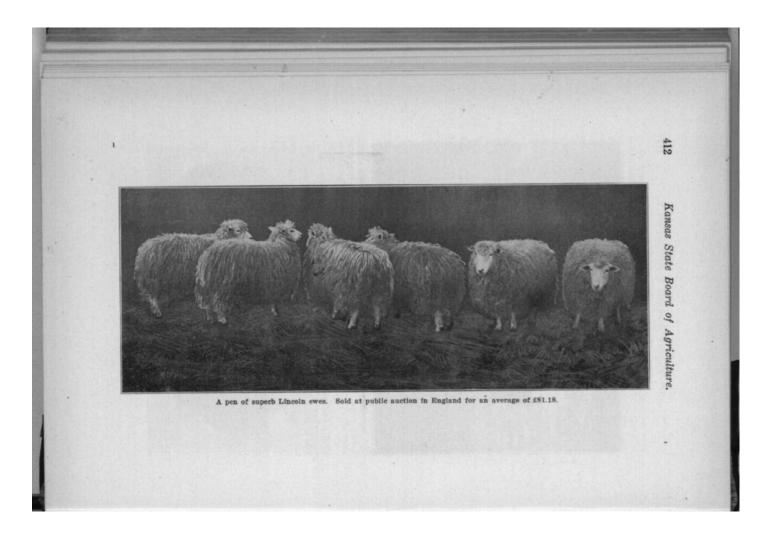






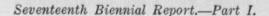








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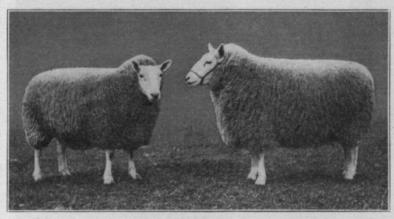
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SHEEP THE FIRST YEAR.

By E. E. HAZEN, Brown county, Kansas, in Farmers Mail and Breeze.

A good ram is more than half the flock, and a poor ram nearly all the flock. Poor feeding means a poor price, and good feeding a good price. It pays to divide the pasture and change from one part to the other every ten days or two weeks.

Some sheep raisers advise keeping as many pounds of sheep on a pasture as one would of cattle. Two authorities whom I consider reliable say 1000 pounds of sheep will consume as much as 1200 pounds of cattle, and this I think is nearer the truth. It is poor economy to overpasture. Turn the sheep into the stubble field as soon as the grain is out. If the lambs are not sold by the time corn is husked turn them in the cornfield.



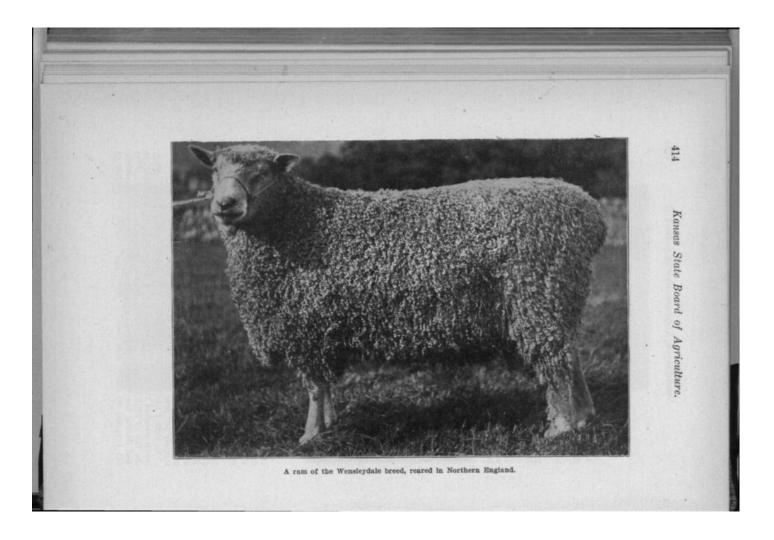
A pair of Cheviots.

Get Farmers' Bulletins Nos. 93 and 102 from the Bureau of Animal Industry, Washington, D. C., also one of the latest sheep books. Sheep can't be raised by book, but books will tell many things the sheep raiser should know, and much more cheaply than he can learn them by experience.

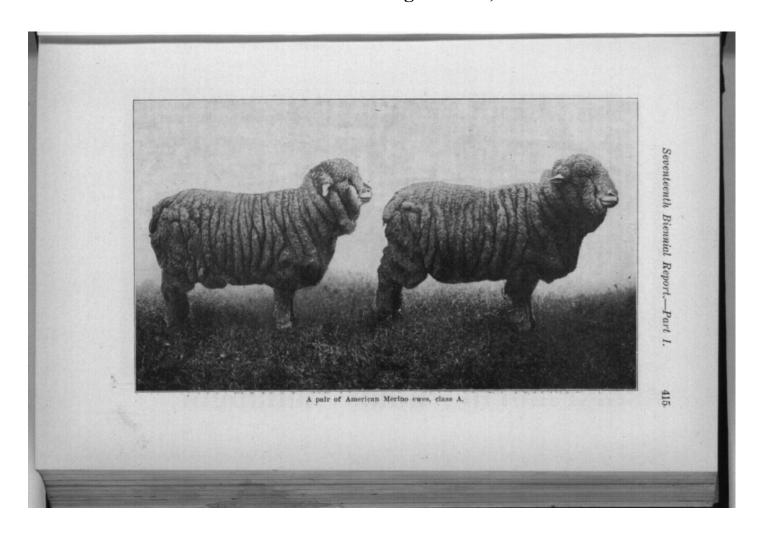
My neighbor, who has been raising market lambs for fifteen years, tells me they have paid him as much for the land pastured as he gets for the land cropped, and that his land is richer every year for crop production. He considers that the wool pays the cost of their winter keep. One year his 150 ewes sheared 11 pounds, which sold at 24 cents per pound. The three-year average for wheat on his farm is 37½ bushels per acre.

In 1893 I had 40 ewes which sheared 11 pounds of wool each. Their lambs weighed 110 pounds in January and sold at \$5.25 per hundred. In the fall of 1902 I bought 105 yearling ewes at 3 cents per pound. Five died during the winter, and ten two-year-old ewes proved nonbreeders, but I raised 90 lambs that came in April and weighed 80 pounds in

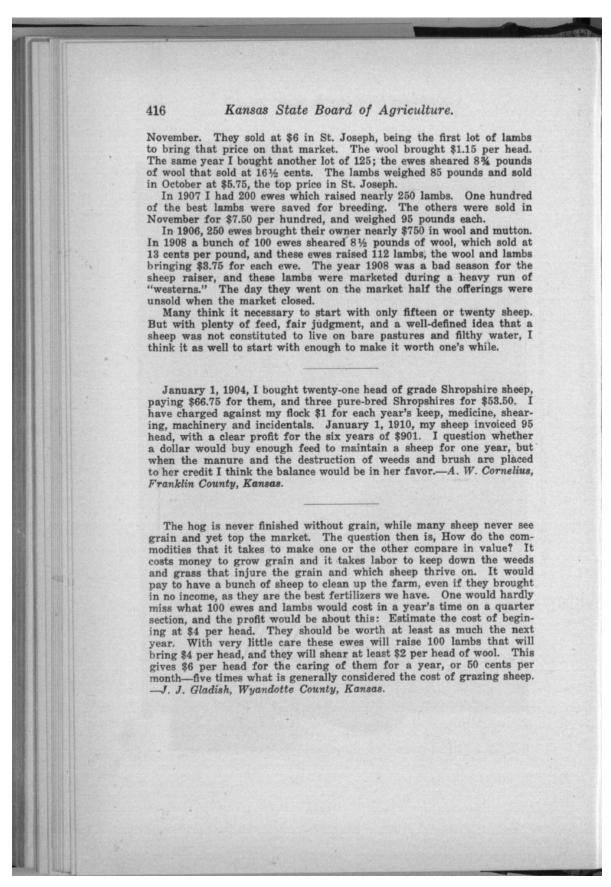




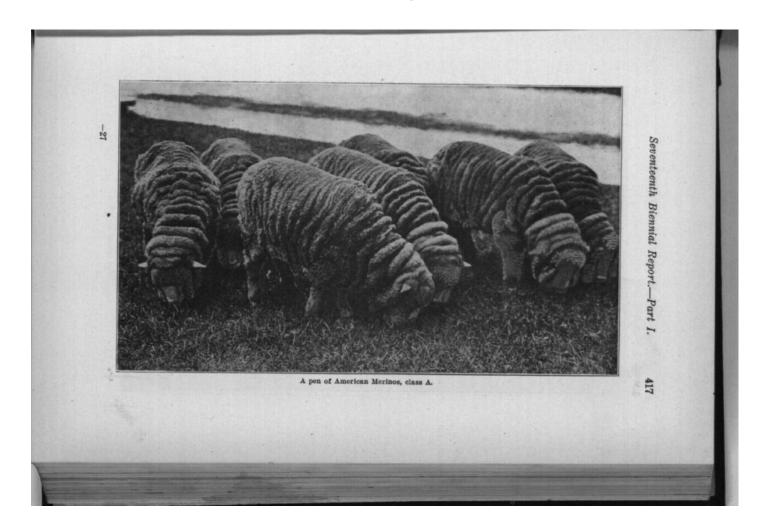




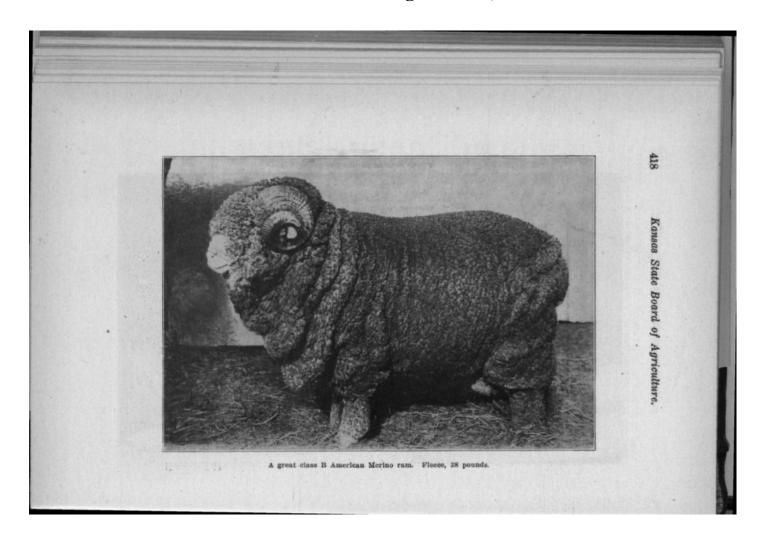




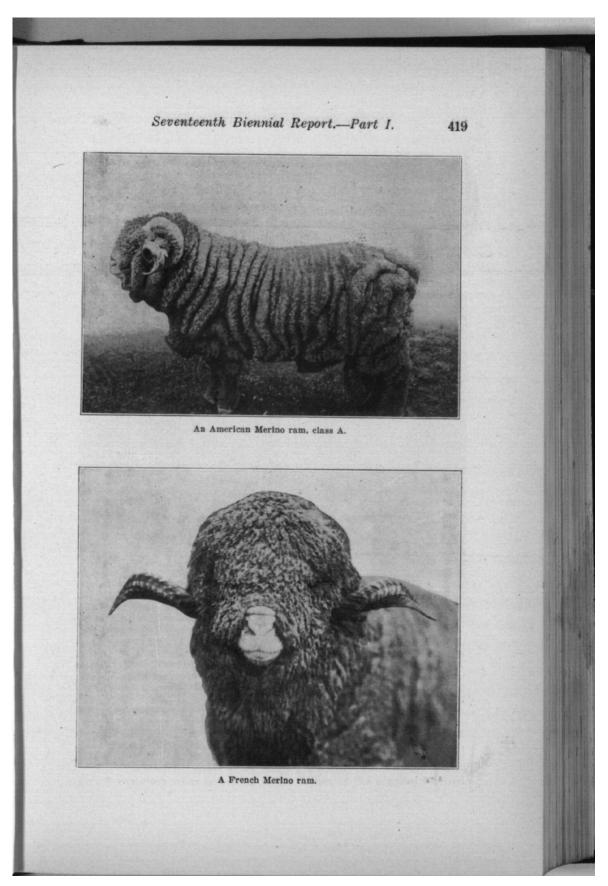




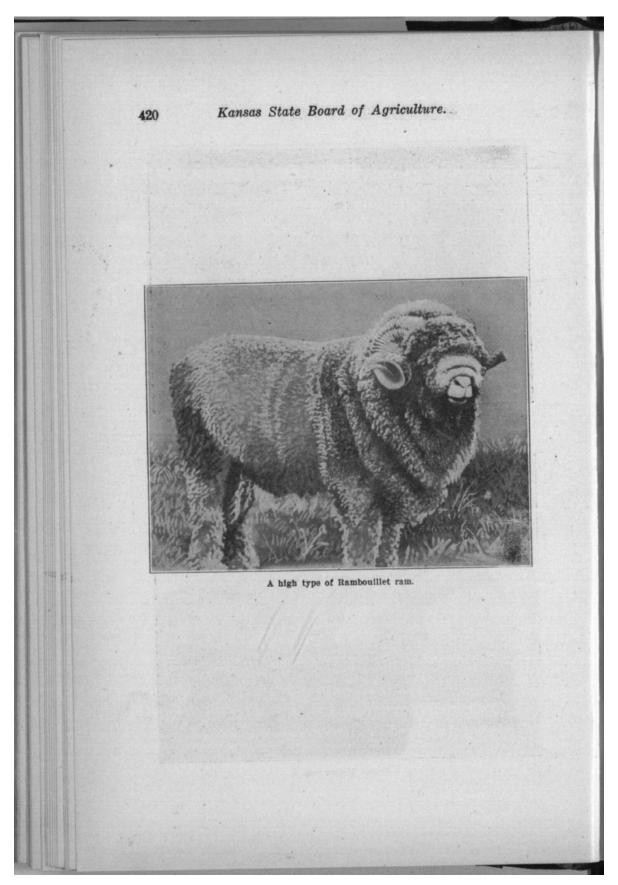




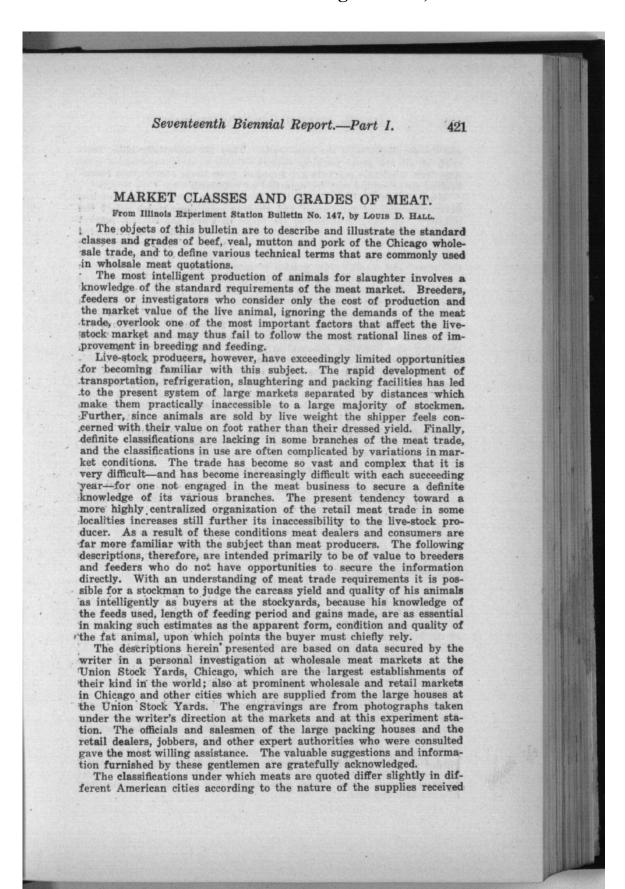












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and the peculiarities of the local trade. They are essentially alike, however, at all the great packing centers of this country, and since most American wholesale markets are supplied from these centers, the classification as presented may be regarded as standard.

Market classifications of meat, like those of live stock, are more or less flexible because of the varied and varying conditions which affect the industry. In those branches of the trade in which the current market terms are vague and the classifications loose, the writer has attempted to present the subject as systematically as possible without exaggerating the classification actually in use. It is impracticable to include here all the minor and intermediate grades of meat within each class, and this bulletin describes only those classes and grades which may be considered standard or representative. It is also difficult to describe a grade of meat independently of others within its class. Generally, therefore, each grade should be studied in connection with those above and below it.

Attention is called to the fact that the following classifications are those of the wholesale meat trade and not of the live-stock market, and that they are described independently of the latter. The weights given refer to dressed carcasses and cuts, and in no case to live animals. Although in some instances the classes of meat correspond to those of live stock, they are in the main quoted and sold quite separately and differently from the live animals from which they are obtained. It is outside the objects of this bulletin to consider the relation of the animal to its meat products. It is hoped, however, that it will assist materially in placing such investigations on a more exact and uniform basis than would otherwise be possible, and that it will increase the number and significance of future investigations along this line.

BEEF IN GENERAL.

The general divisions of the beef trade are (1) carcass beef, (2) beef cuts, and (3) cured beef products. The term fresh beef includes carcass beef and beef cuts. It refers both to chilled beef, which is held in refrigeration at 36° to 38° F. for a few days or weeks only, and to frozen beef, which is stored at 10° to 15° F., usually for several months. About four-fifths of the beef trade consists of fresh beef, the remainder being converted into various products, such as barreled, smoked and canned beef, sausage meats, etc.

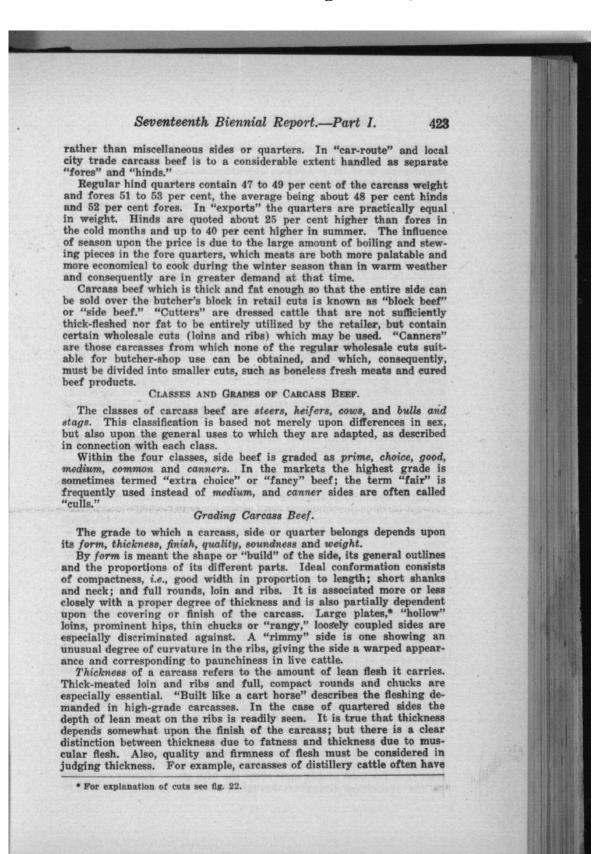
CARCASS BEEF.

About one-half the supply of fresh beef sold in wholesale markets is carcass beef (sides and quarters). The two sides or halves of a carcass are termed a "cattle." In the right or "closed" side the inner surface of the kidney fat is attached to the loin while in the left or "open" side it is free and a portion of the "skirt" (diaphragm) extends to the tenth* rib, forming the "hanging tenderloin." The two sides are nearly equal in weight, but the open one is often one per cent the heavier. When sides are sold separately no discrimination in price is made between rights and lefts.

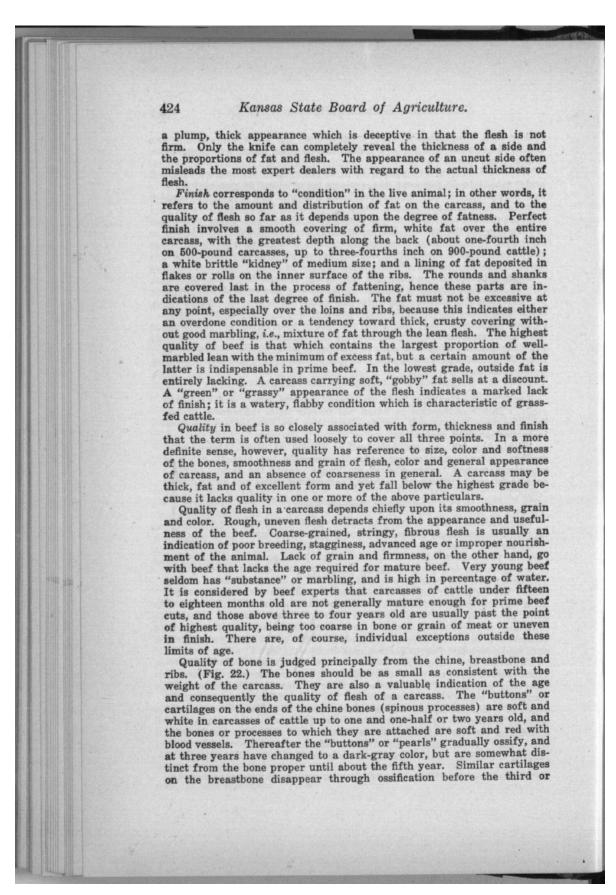
Sides are quartered or "ribbed" between the twelfth and thirteenth ribs* when taken from the chillroom either for shipment or local delivery, except export and "Boston" cattle, which are cut between the tenth and eleventh ribs. The quarters are called "fores" and "hinds." In shipping and export trade, the four corresponding quarters are regarded as a carcass of beef; that is, they are sold as "straight cattle"

^{*} Beef carcasses contain thirteen pairs of ribs. It is customary to number them from the neck backward.

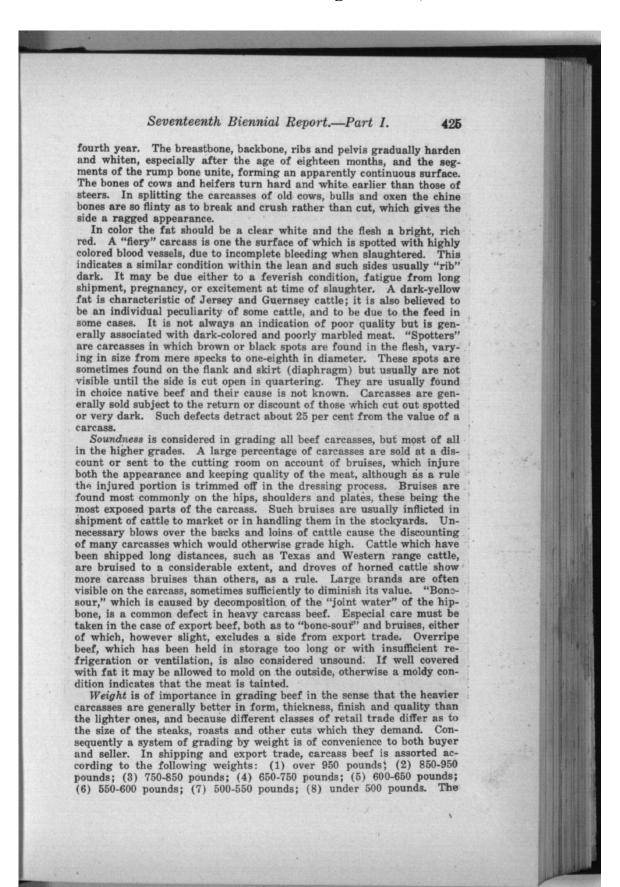




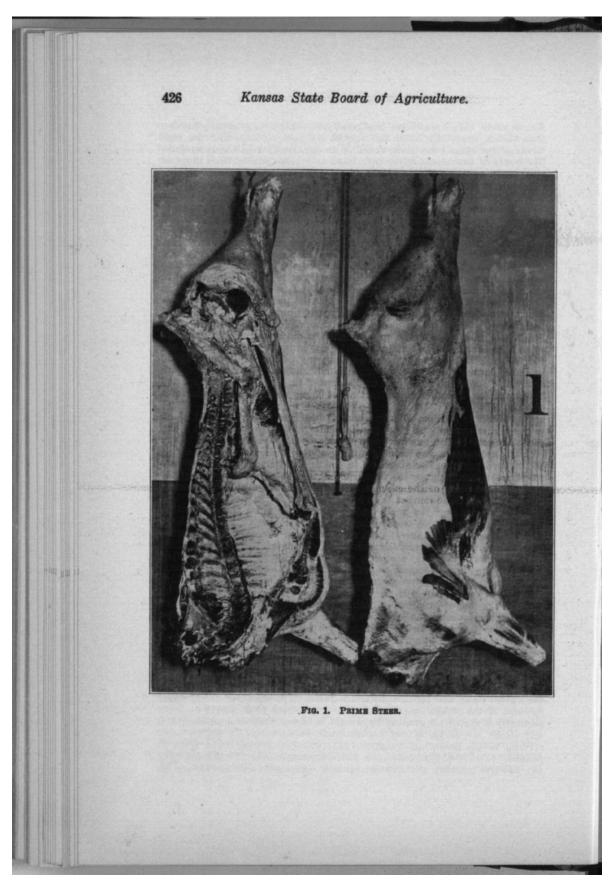




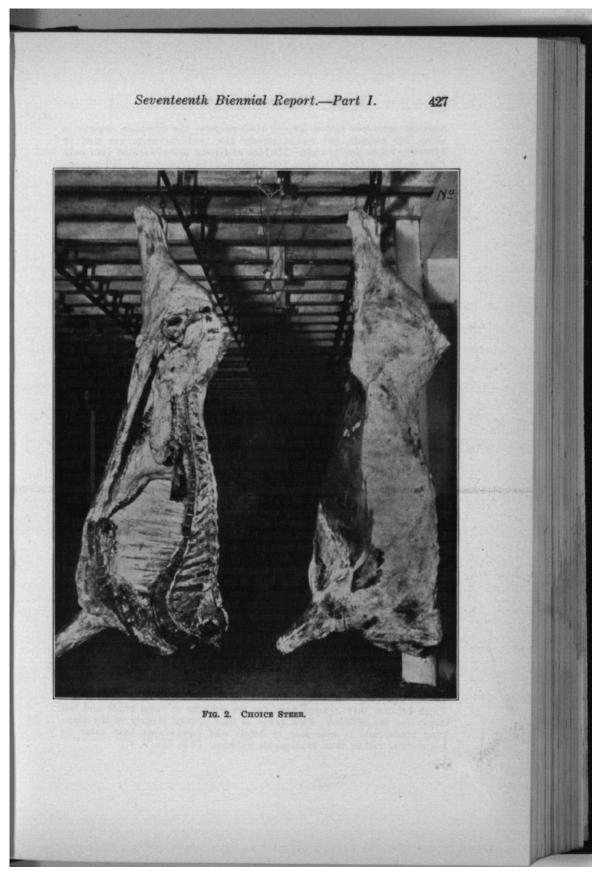




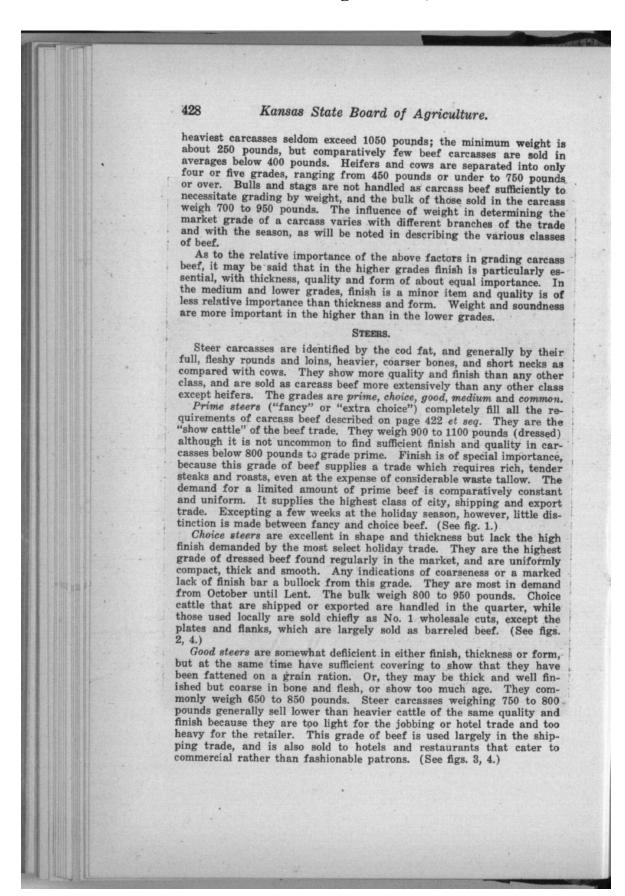




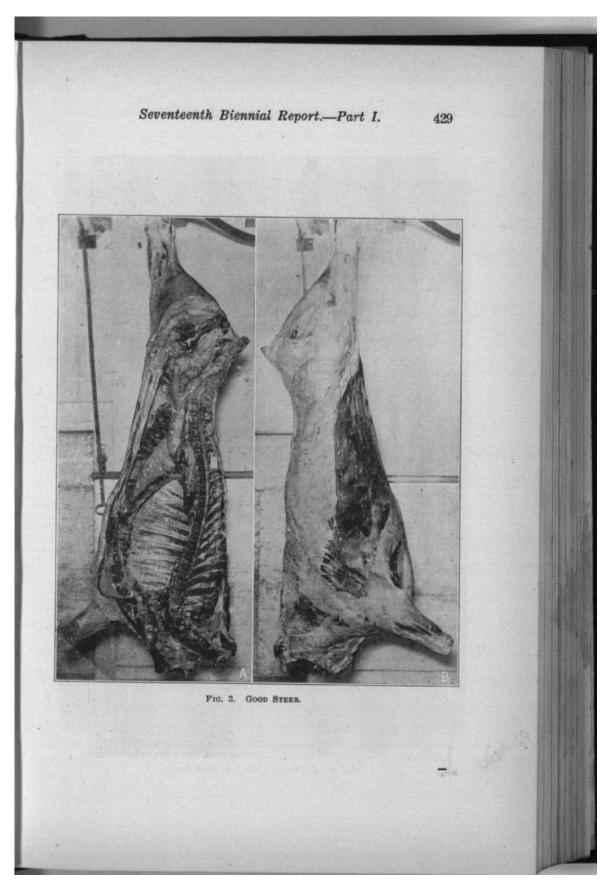




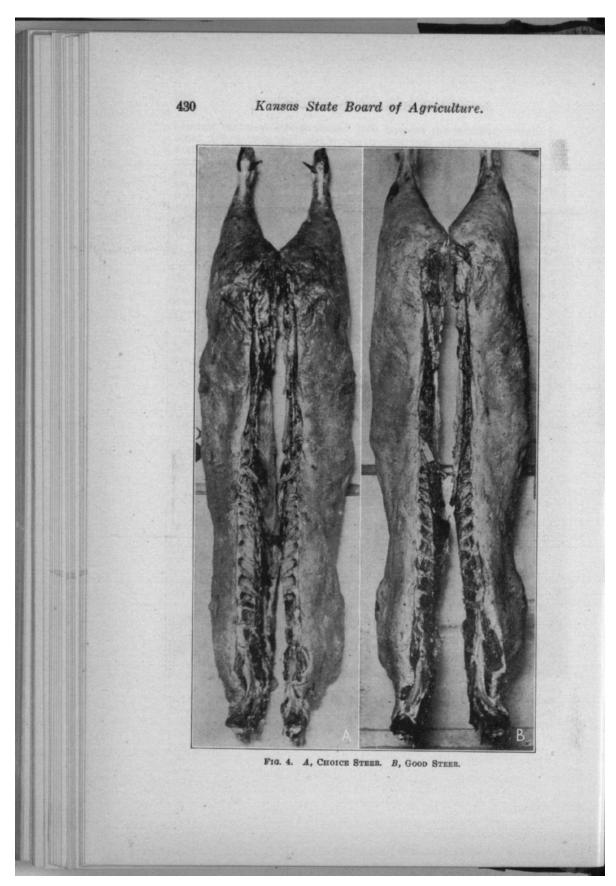




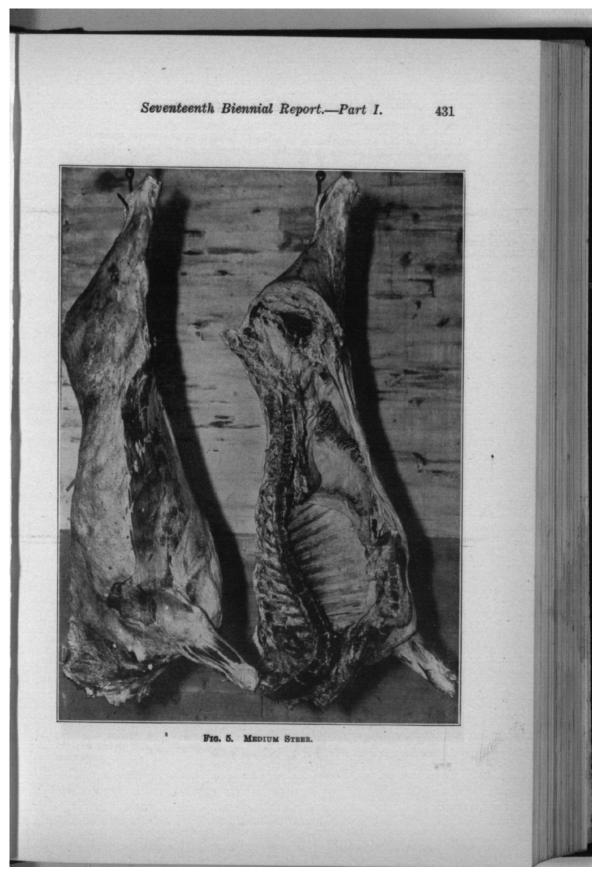




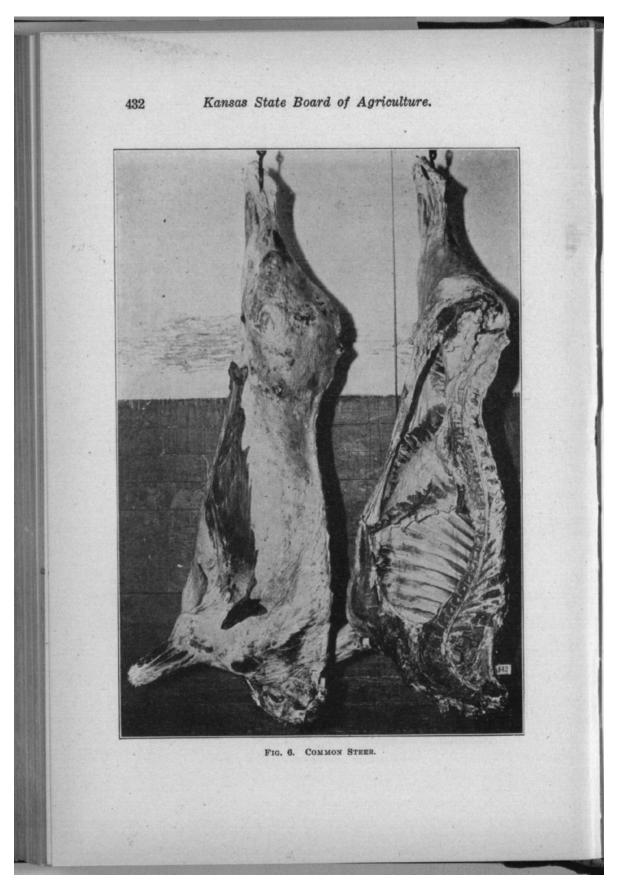














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Medium steers are so graded because of a deficiency in any or all of the points mentioned in reference to the higher grades, but to a more marked extent. As a rule they are about as fat as good steers, but many have no covering over round or chuck, and a common feature of the grade is coarseness of quality and conformation. Some slightly staggy cattle are included. Heavy plates, hollow loins, prominent hips and shoulders, light rounds, long necks, dark color, "grassy" flesh or other equally objectionable points are found in this grade. They are the lowest grade of bullocks that are ordinarily sold in the carcass, and the majority of the supply is sold to retail markets. The wholesale cuts of medium Western steers are frozen in large quantities during the fall season. The general run weigh 550 to 750 pounds and some plain carcasses are included up to 900 pounds. (See fig. 5.)

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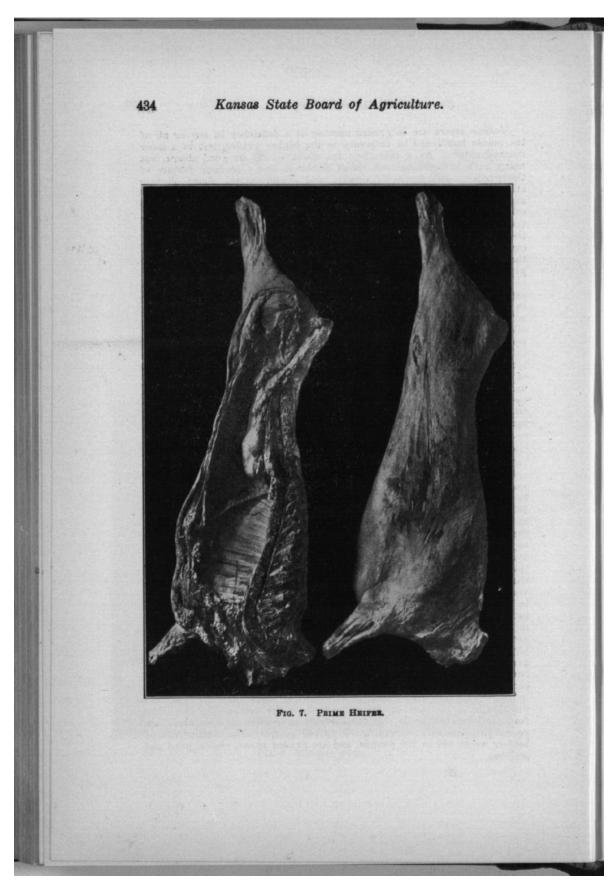
Common steers have but little outside fat and kidney suet. They are angular, long in shank and neck, and generally dark-colored or "grassy" in flesh. Many sides which are disqualified from higher grades by reason of bruises, stagginess, "off color" (fiery, spotted or yellow) or other defects, are sold as common. (Fig. 6.) They average 450 to 600 pounds. When sold as carcass beef they are taken by jobbers or retailers who supply a cheap trade. Ordinarily, however, they enter the trade as wholesale cuts and barreled beef. They are the lowest grade of steer sides with the exception of an inconsiderable number of culls used for canning purposes. The latter are comparable in quality with common and canner cows. The proportion of common carcasses is much smaller in the steer class than in others, because thin steers are extensively shipped from the market to the country as feeders, whereas nearly all cattle of other classes sold at the large markets are slaughtered.

HEIFERS.

Heifer carcasses are distinguished from steers by the bag (udder), and as a rule they have smaller bones, slightly more angular rumps. less development of lean flesh, and average somewhat less in weight. While the percentage of carcass weight in loins and ribs is frequently as high in heifers as in steers, the greater thickness of lean meat in those parts of the steer is greatly to his advantage. Further, the tendency in heifer beef is to carry the fat more largely in the form of kidney suet or "gobby" fat than steers in the same degree of finish; they are also flatter in the loin, fatter in the plate and more "necky" than steers. Accordingly heifer beef is rated lower in the market than steers of corresponding grades. The average heifer carcass is lighter in weight and lower in grade than the average steer. Experts are not agreed as to the comparative quality of the two classes of beef, and it may be said that differences in color, texture and "substance" of flesh are not marked. The prevailing notion that heifer beef is in relatively higher favor in England than in America is true only so far as the best grades are concerned. Heifer sides differ from cows in their immaturity, indicated by softer bones and brighter color of flesh; in shape, especially their less angular rumps, fuller loins and shorter necks; and in their smoother finish and smaller, firmer bags. Heifers are sold principally in the side or quarter, owing to the demand for this beef for retail butcher trade. A considerable proportion of this class are yearlings (page 452), averaging 400 to 600 pounds. The regular run of heifers weigh 350 to 750 pounds, and are graded prime, choice, good and medium.

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Prime heifers are selected according to practically the same requirements as prime steers, with special reference to full loins and rounds, compact form, smooth finish, short neck and light udder. They seldom have quite the thickness of flesh found in steers. The few carcasses of this grade which appear in the markets are usually seen in lots of choice and prime bullocks, in which case they may sell at a uniform price with the latter. When sold separately they are discriminated against by most American dealers, on the ground that the steaks and roasts do not cut out as thick in the lean as those cut from steers and that the proportion of waste fat is greater. Since this discrimination is not made in British trade, owing to its greater demand for fat steaks and roasts, prime and choice heifer carcasses are frequently exported. (See fig. 7.)

Choice heifers are similar to choice steers except in the points mentioned in the preceding paragraph. As a class they are imperfect in finish and quality rather than in form and thickness as compared with prime heifers. Like the latter, they must be strictly "maiden" heifers; that is, the carcass must bear no evidence of pregnancy. They are sold to city and country retail dealers, shipped east, and occasionally exported to Great Britain. (See fig. 8.)

ported to Great Britain. (See fig. 8.)

Good heifers. These are sides that are clearly above the average of the class but lack either the finish, thickness or conformation, or all, required of a choice side. They must have sufficient covering and kidney fat to show that they have been fattened on a grain ration. Local retail dealers use a great deal of this grade of beef and much of it is shipped to the smaller cities. (See fig. 9.)

Medium heifers. The medium or average heifer carcass is plain in conformation and deficient in flesh and finish. A marked deficiency in either of the three points renders a side medium which would otherwise grade good, and many of this grade are of the heavy weights (700-800 pounds) and somewhat "cowish" in general appearance. They are the lowest grade of heifer sides that can be entirely sold over the block of the ordinary retailer, and are to some extent made into wholesale cuts before being sold by the killer. This beef supplies the second-class-trade, of which most retailers have more or less, and is used for the bulk of the trade in cheaper markets. (See fig. 10.)

Common heifers. Common heifers have little covering of fat and only sufficient thickness of flesh to be used as cutters. This grade also includes many heavy heifers which are still more "baggy" and "cowish" than medium heifers. In fact little distinction is made between common heifers and cows, as the differences are much less apparent than in higher grades, and in many cases are quite immaterial. (Fig. 11.) Very few heifers are found among canners, and those that are so found are well represented by the illustration and description of canner cows.

Cows

The angular form, long neck, hard, white bones and lack of thickness of the majority of cow carcasses make them easy to distinguish from other classes of beef. The bag is trimmed off as closely as possible in dressing cows, but it is generally large and "baggy" enough to indicate the class of the carcass. The bones are also hard and therefore do not split as smoothly as heifers or steers, especially at the chine and loin. Fat cow carcasses often carry their tallow as kidney fat and in bunches on the back and rump rather than an even covering; and the flesh is seldom as well marbled as that of heifers or steers. Fat is especially



